best

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#Finding the best hospital in a state   
best<-function(state,outcome){  
##Reading and Initializing Data  
 setwd("E:/PDF for R program")  
 x<-read.csv("outcome-of-care-measures.csv" ,colClasses = "character" ,header =TRUE, stringsAsFactors=F, na.strings = "Not Available")   
 states<-unique(x$State)  
 outcomes<-factor(c("heart attack" , "heart failure" , "pneumonia"))  
##validating state and Outcome  
 if(!(state %in% states)){  
 stop("invalid state")  
 }  
 if(!(outcome %in% outcomes)){  
 stop("invalid outcome")  
 }  
##Taking Subset by state variable  
 subsetofx<-subset(x,x$State==state)  
##getting result from the subset data by ordering it  
 if(outcome==outcomes[1]){  
 y<-subsetofx[order(subsetofx[,11]),]  
 result<-y[,2]  
 FR<-result[1]  
 }  
 if(outcome==outcomes[2]){  
 y<-subsetofx[order(subsetofx[,17]),]  
 result<-y[,2]  
 FR<-result[1]  
 }  
 if(outcome==outcomes[3]){  
 y<-subsetofx[order(subsetofx[,23]),]  
 result<-y[,2]  
 FR<-result[1]  
 }  
 return(FR)  
}  
  
##End of the Function   
  
##getting the best hospital name  
  
best("TX", "heart attack")

## [1] "CYPRESS FAIRBANKS MEDICAL CENTER"

best("MD", "heart attack")

## [1] "JOHNS HOPKINS HOSPITAL, THE"